

ALLEN ORGAN COMPANY

SERVICE BULLETIN FOR THE ALLEN MODEL THEATRE DELUXE

The following wiring diagram and instructions are for use by
factory authorized service representatives only.

IR865

MANUALS:

Solo and Accompaniment with 61 notes each—
overhang.

PEDALBOARD:

32 notes radiating and concave.

EXPRESSION:

1 Expression Pedal controlling entire organ.

FEATURES:

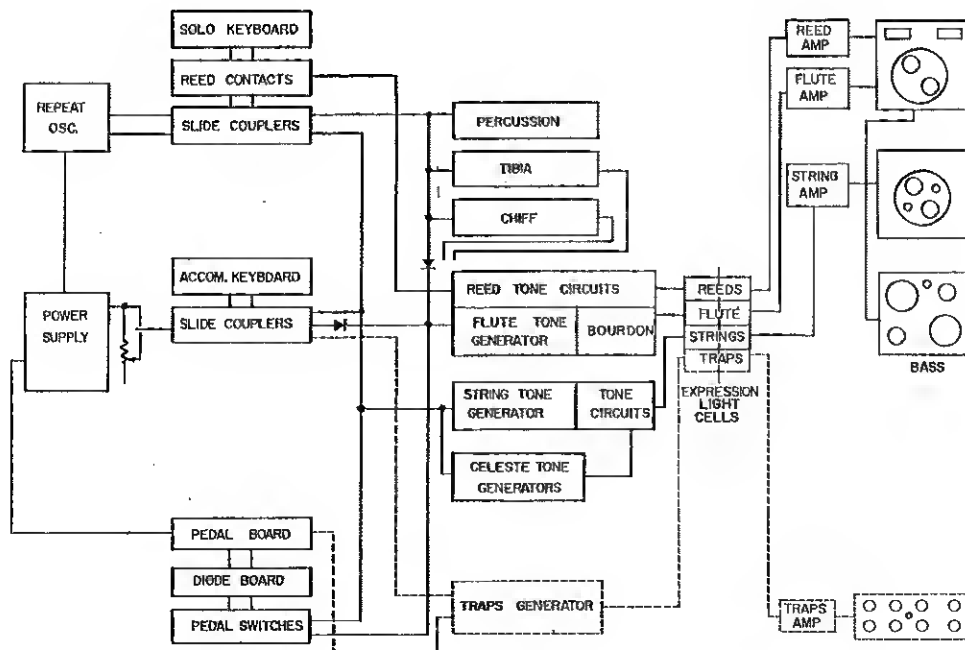
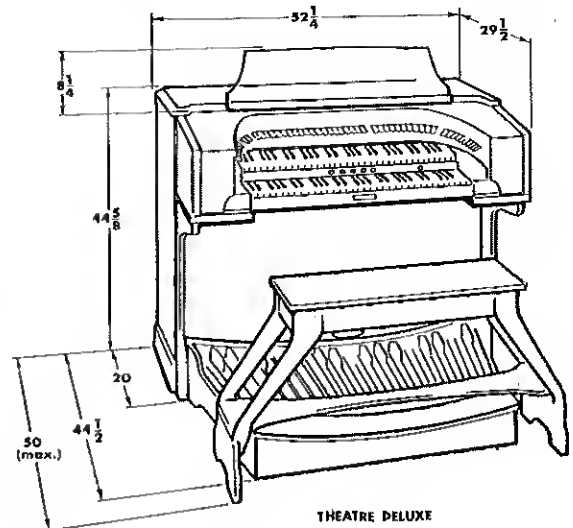
Horseshoe style console containing three sets of tone
generators—two external Gyrophonic Projectors and
one external pedal cabinet.

POWER REQUIREMENTS:

425 Watt maximum 115 volts—60 cycles.

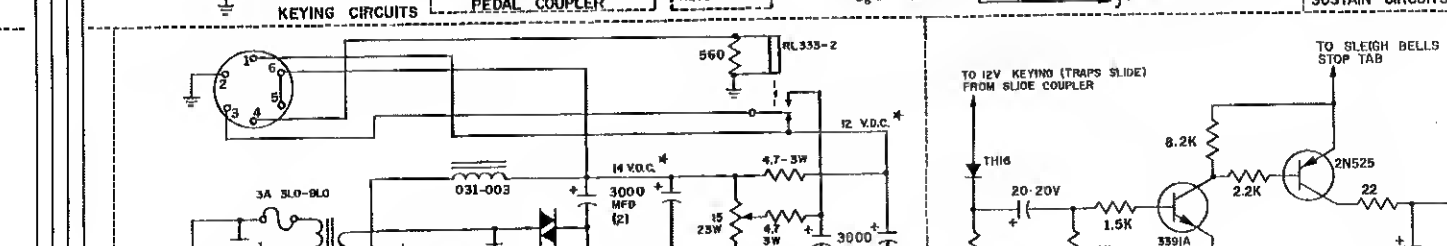
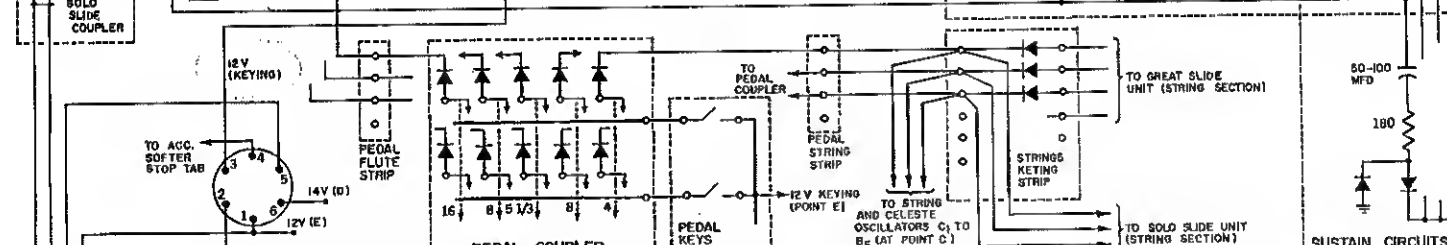
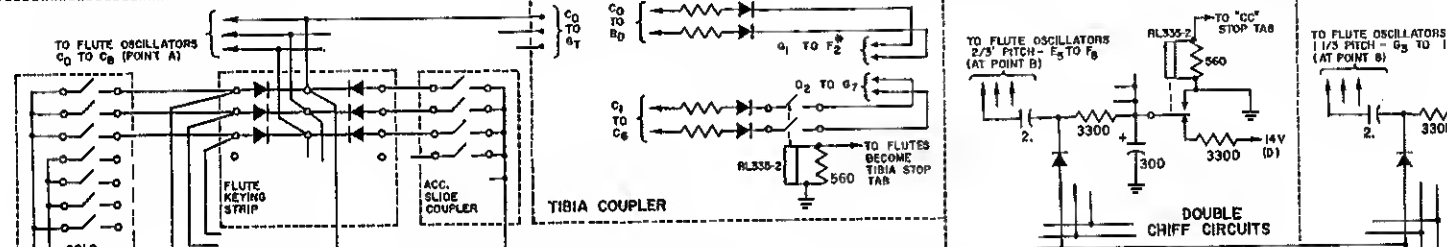
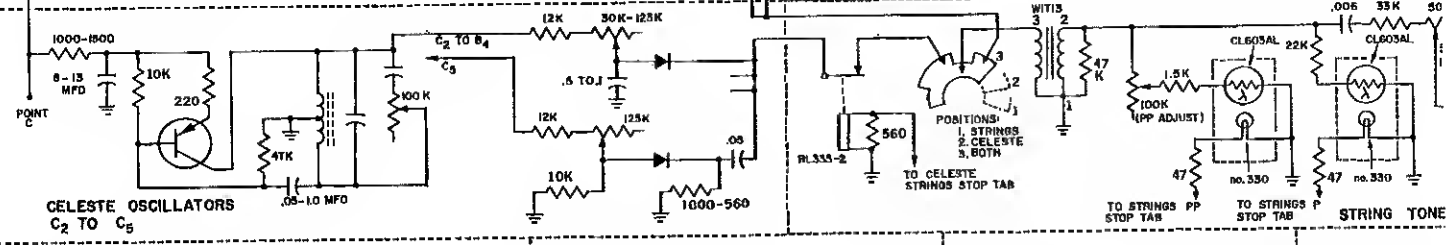
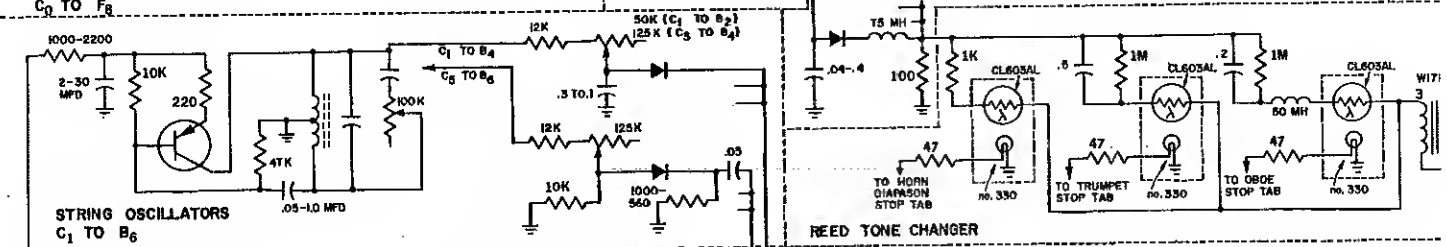
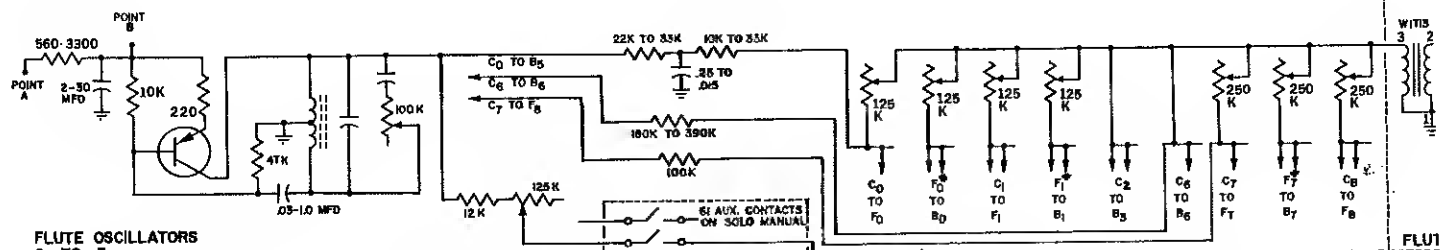
WEIGHT UNCRATED:

Console	395 lbs.	325 Flute-Reed	128 lbs.
Pedalboard	60 lbs.	310 String	105 lbs.
Bench	25 lbs.	305 Pedal	65 lbs.



Block Diagram

KEEP THIS BOOKLET. IT CONTAINS VALUABLE INFORMATION

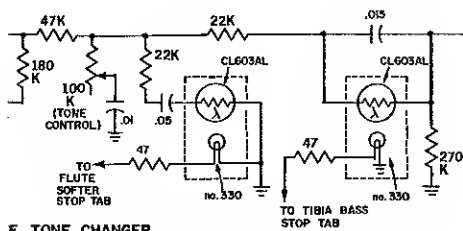


COMBINATION (SPNTHESIS) STOPS

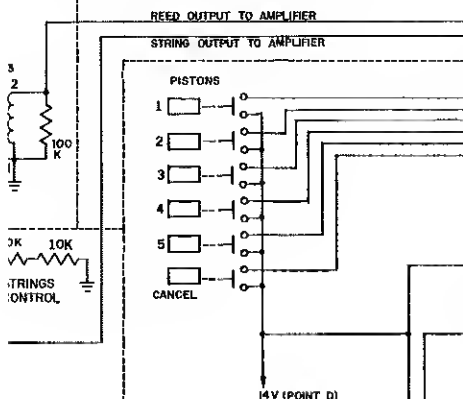
The following are achieved by automatically combining two or more stop pitches:

Stop Name	Combination
Clarinet	8, 2-2/3, 1-3/5
Marimba	8, Sustain, C
Music Box	2, 1, Sustain
Xylophone	8, 4, Repeat, C
Chrysogloss	16, 4, 1-3/5, Sustain, C
Carillon	Ch, 4, 2-2/3, 2, Ch, Sustain

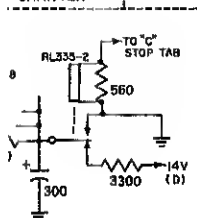
The Theatre Defuxe is equ combination pistons and tw buttons. Indicator lights, on ton, are located on the right panel. Pistons 1, 2, and 3 provide s ately full ensemble. Piston 4 ming strings and organ. Pis a full theatrical ensemble. When any piston is in ope tablets of the organ are ek connected. Thus, a special c be set up on the stopboar are being used. This combir be brought into use the mor cel button is depressed.



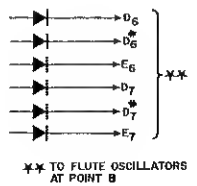
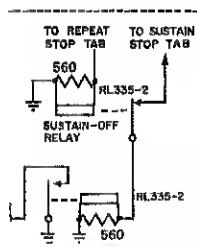
E TONE CHANGER



CHANGER



CHIFF CIRCUITS

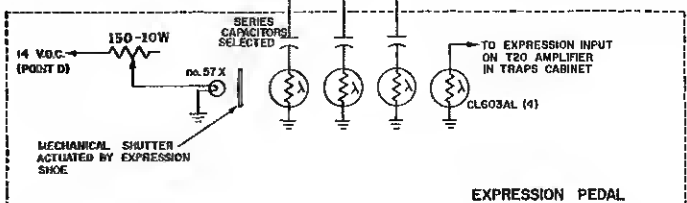


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piston cancel
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end of the stop

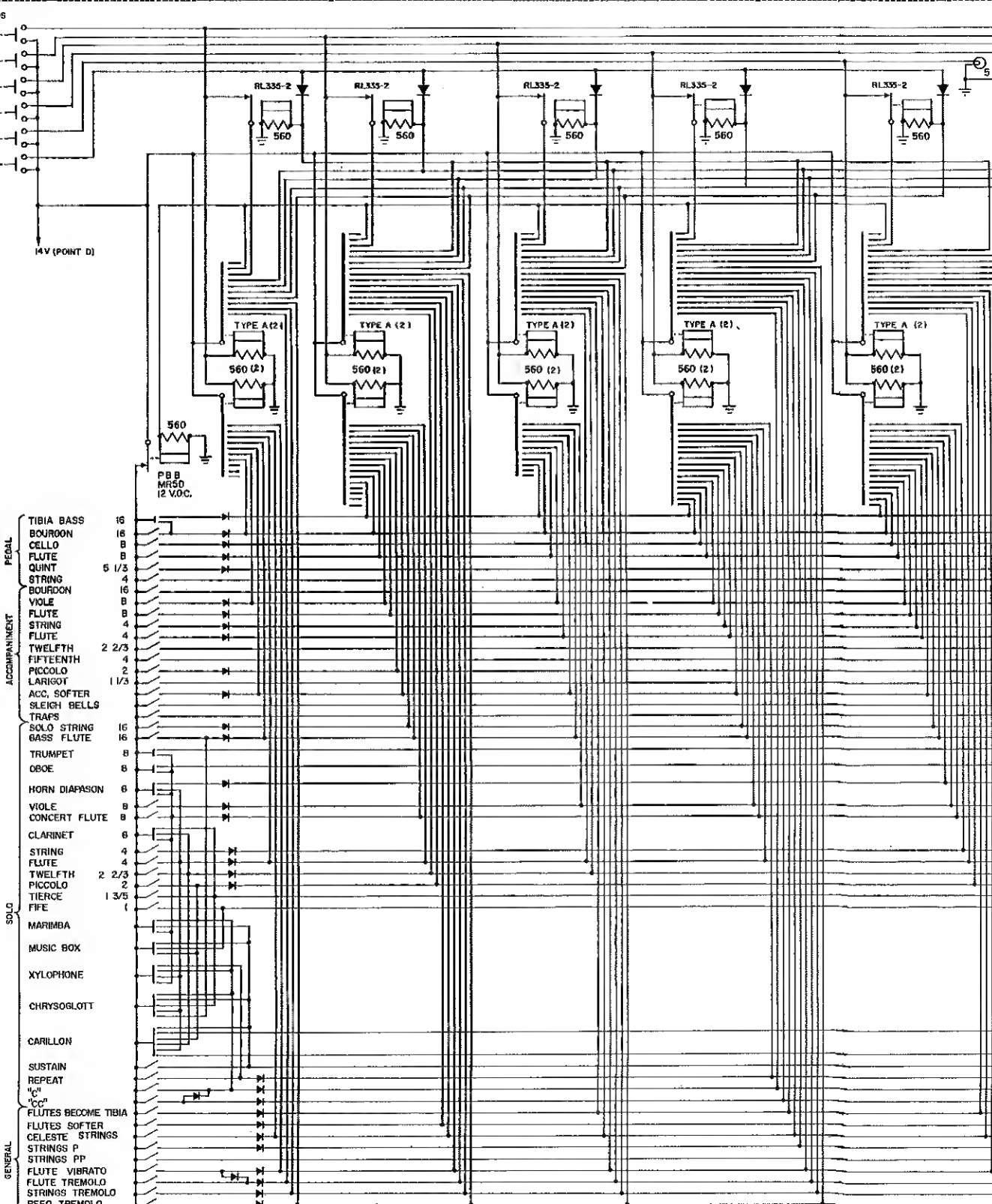
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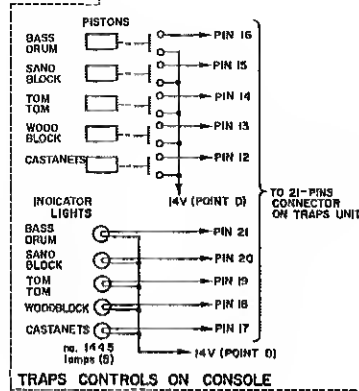
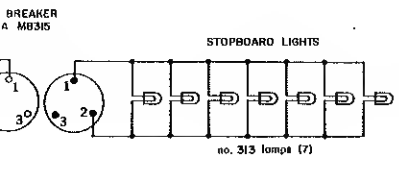
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FLUTE OUTPUT TO AMPLIFIER



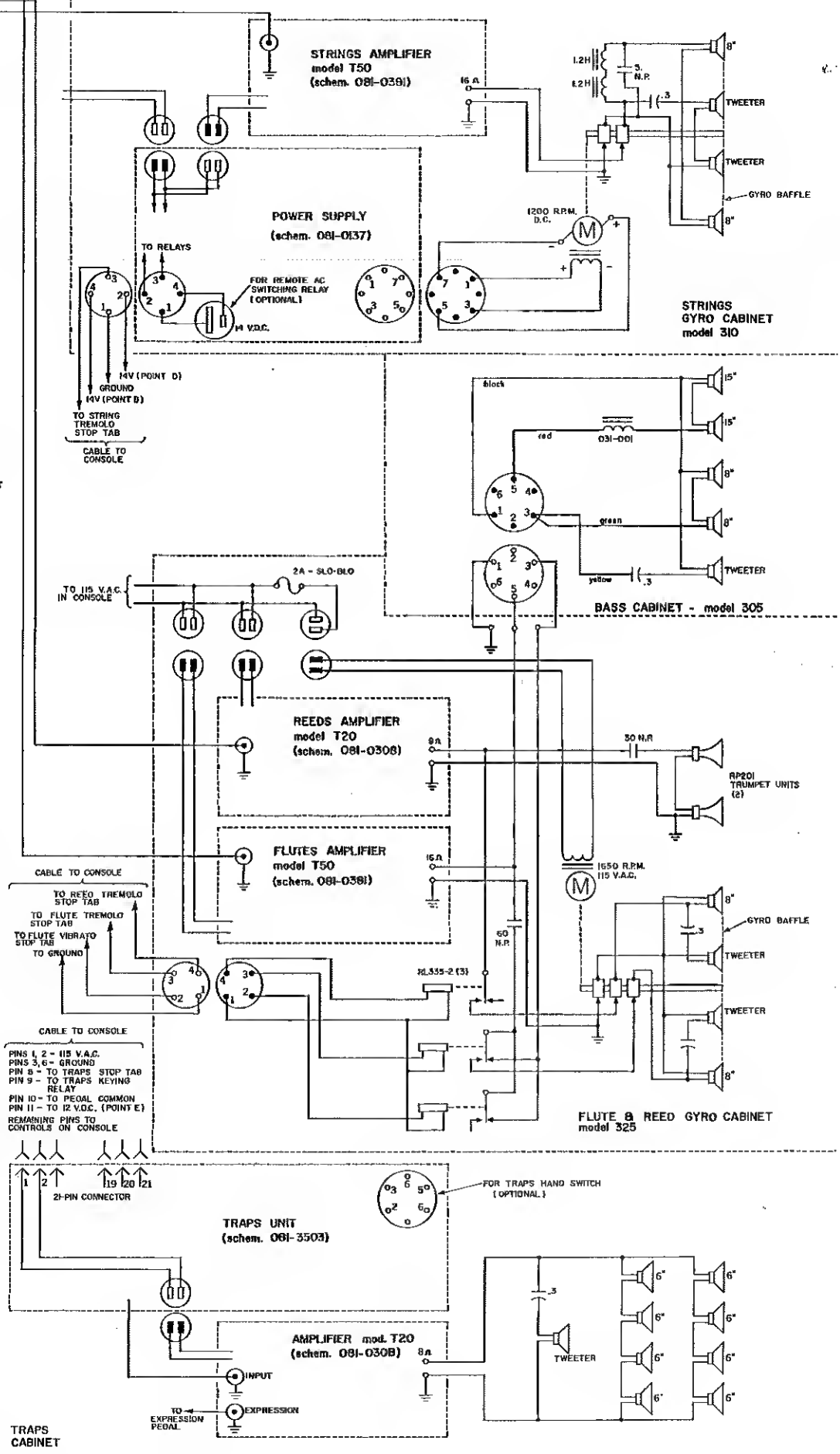
EXPRESSION PEDAL

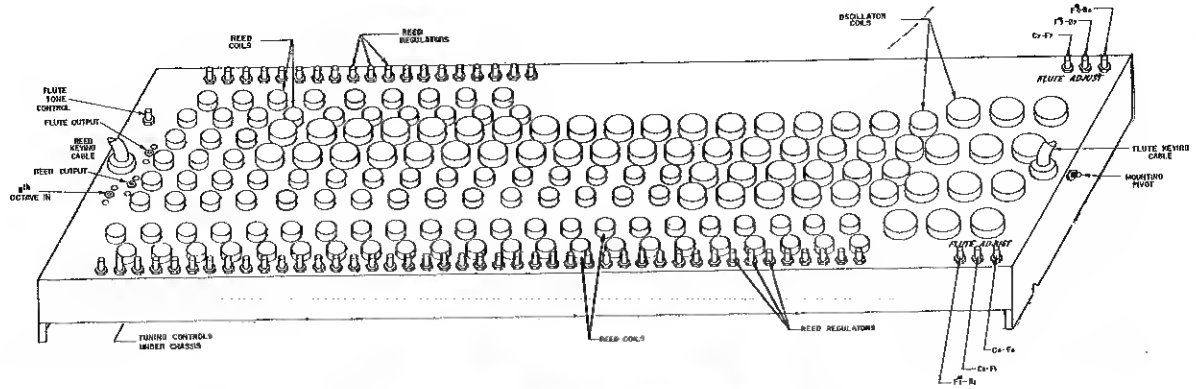




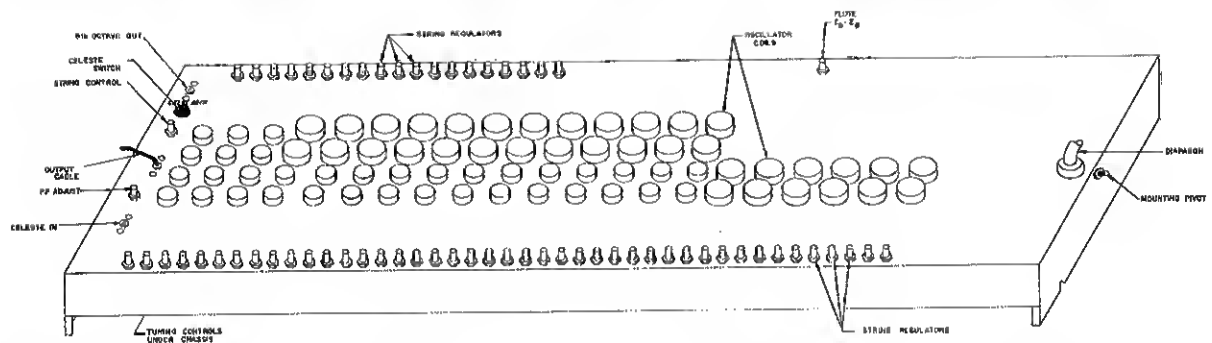
- TO TIBIA BASS LDR ON FLUTE TONE CHANGER
 - TO 18' FLUTE
 - TO 8' STRING
 - TO 8' FLUTE
 - TO 6 1/2' FLUTE
 - TO 4' FLUTE
 - TO 16' FLUTE
 - TO 8' STRIND
 - TO 8' FLUTE
 - TO 4' STRING
 - TO 4' FLUTE
 - TO 2 2/3' FLUTE
 - TO 2' STRING
 - TO 2' FLUTE
 - TO 1 1/3' FLUTE
 - TO PIN 4 (RELAY) ON POWER SUPPLY
 - TO 2ND IN SLEIGH BELLS CIRCUIT
 - TO TRAPS UNIT (PIN 8) AND TRAPS KEYING RELAY
 - TO 16' STRING ACTION MAGNETS ON SOLO SLIDE COUPLER
 - TO 16' FLUTE
 - TO TRUMPET LDR
 - TO ORBE LDR
 - TO HORN DIAPHRON LDR
 - TO 8' STRING
 - TO 8' FLUTE
 - TO 4' STRING
 - TO 4' FLUTE
 - TO 2 2/3' FLUTE
 - TO 2' FLUTE
 - TO 1 1/3' FLUTE
 - TO 1' FLUTE
- ACTION MAGNETS ON PEDAL COUPLER
- ACTION MAGNETS ON ACC. SLIDE COUPLER
- ACTION MAGNETS ON SOLO SLIDE COUPLER
- ON REEO TONE CHANGER

- TO CHIME
- TO CHIME
- TO RELAY ON SUSTAIN UNIT
- TO RELAY ON REPEAT UNIT AND TO SUSTAIN OFF RELAY
- TO "C" RELAY
- TO "CC" RELAY
- TO ACTION MAGNET ON TIBIA COUPLER
- TO FLUTE SOFTER LDR ON FLUTE TONE CHANGER
- TO RELAY
- TO STRINGS P LDR
- TO STRINGS PP LDR
- TO FLUTE VIBRATO RELAY (THROUGH PIN 2) IN 325 GYRO CAB.
- TO FLUTE TREMOLO RELAY (" 3) IN 310 GYRO CABINET
- TO STRING TREMOLO RELAY (" 3) IN 310 GYRO CABINET
- TO REEO TREMOLO RELAY (THROUGH PIN 4) IN 325 GYRO CABINET

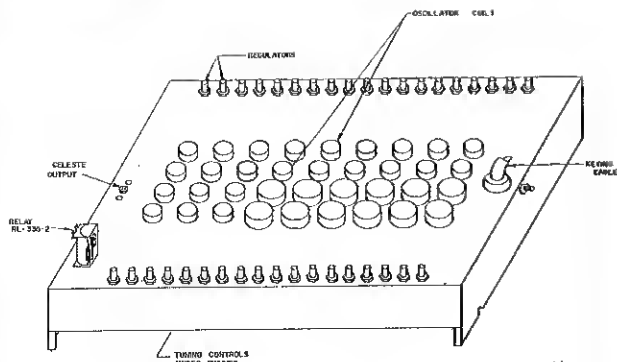




**FLUTE & REED
TONE GENERATOR**



**STRING
TONE GENERATOR**



**CELESTE
TONE GENERATOR**

The Tone Generators are completely serviceable from the back of the organ. All that is necessary for access is to remove the two catter pins from the slide tracks located at each end of the Tone Generator. The entire Tone Generator will then slide out from the console. By loosening two wing nuts under the front corners, the tone chassis may then be flipped over for servicing and tuning.